

A

Virchow-Robin space

Glia limitans membrane

Fusion of leptomeningeal layers

Endothelial cells

Tight junction

Basal lamina

Perivascular glia

B

Blood-brain barrier (units)

100

10

1

Diapedesis under normal conditions

Reduced passage of proteins

Permeable to most small molecules

Drastically reduced passage of cellular elements

Impermeable to most hydrophilic molecules

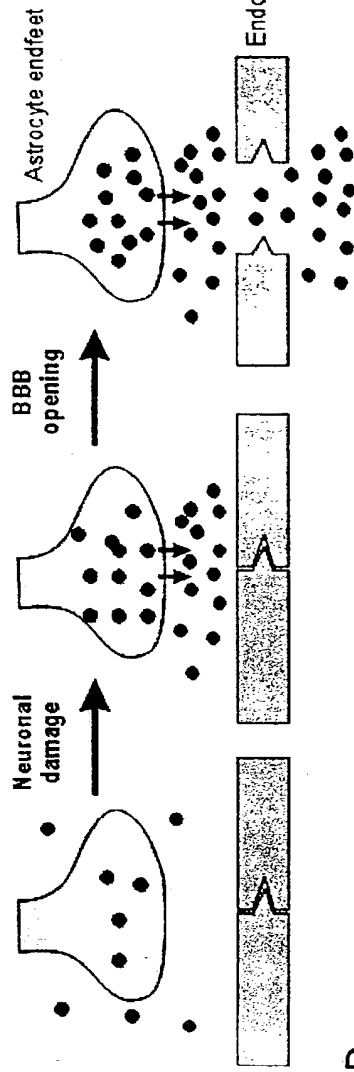
BBB Proper

Negligible permeability

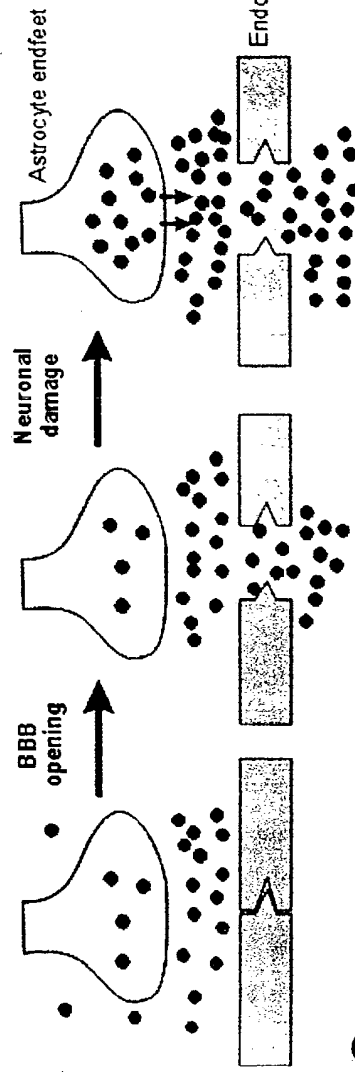
Polarized phenotype

Site of active drug exclusion

A



B



C

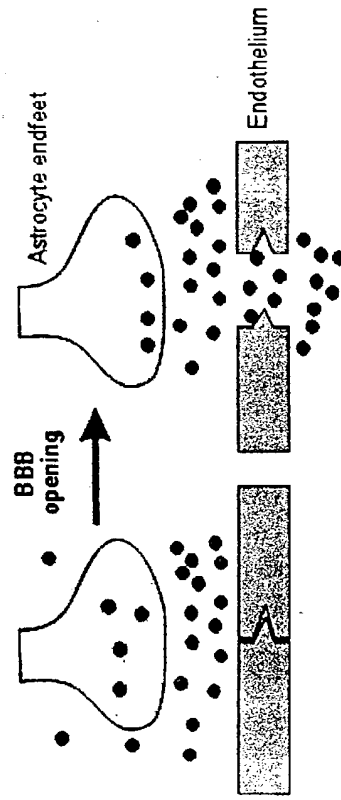


Fig. 2

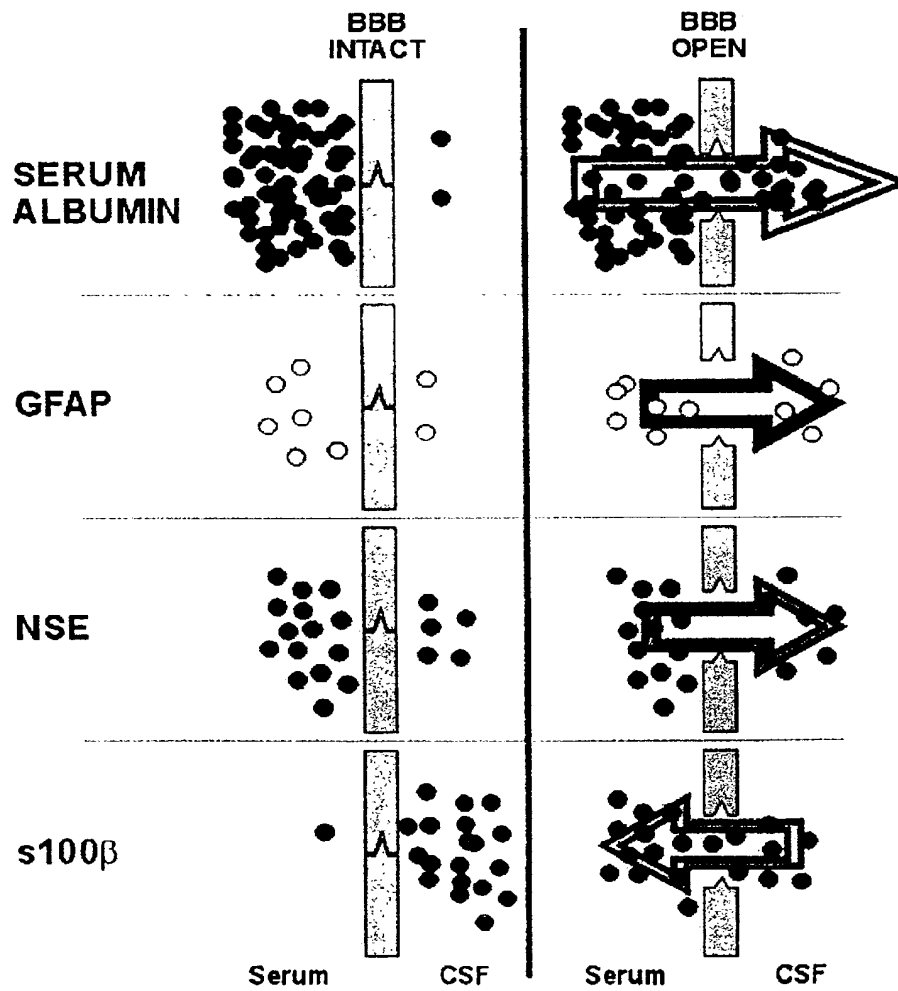
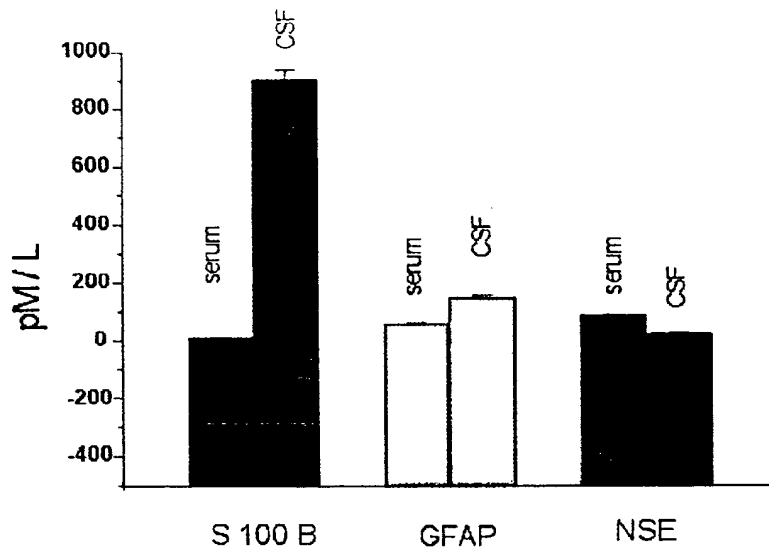
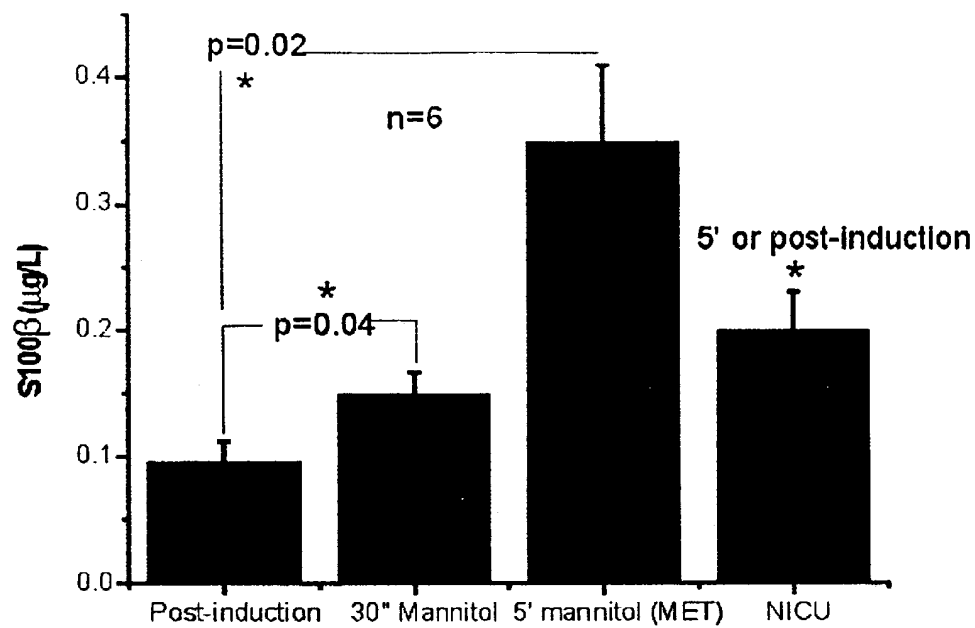


Fig. 3

A



B

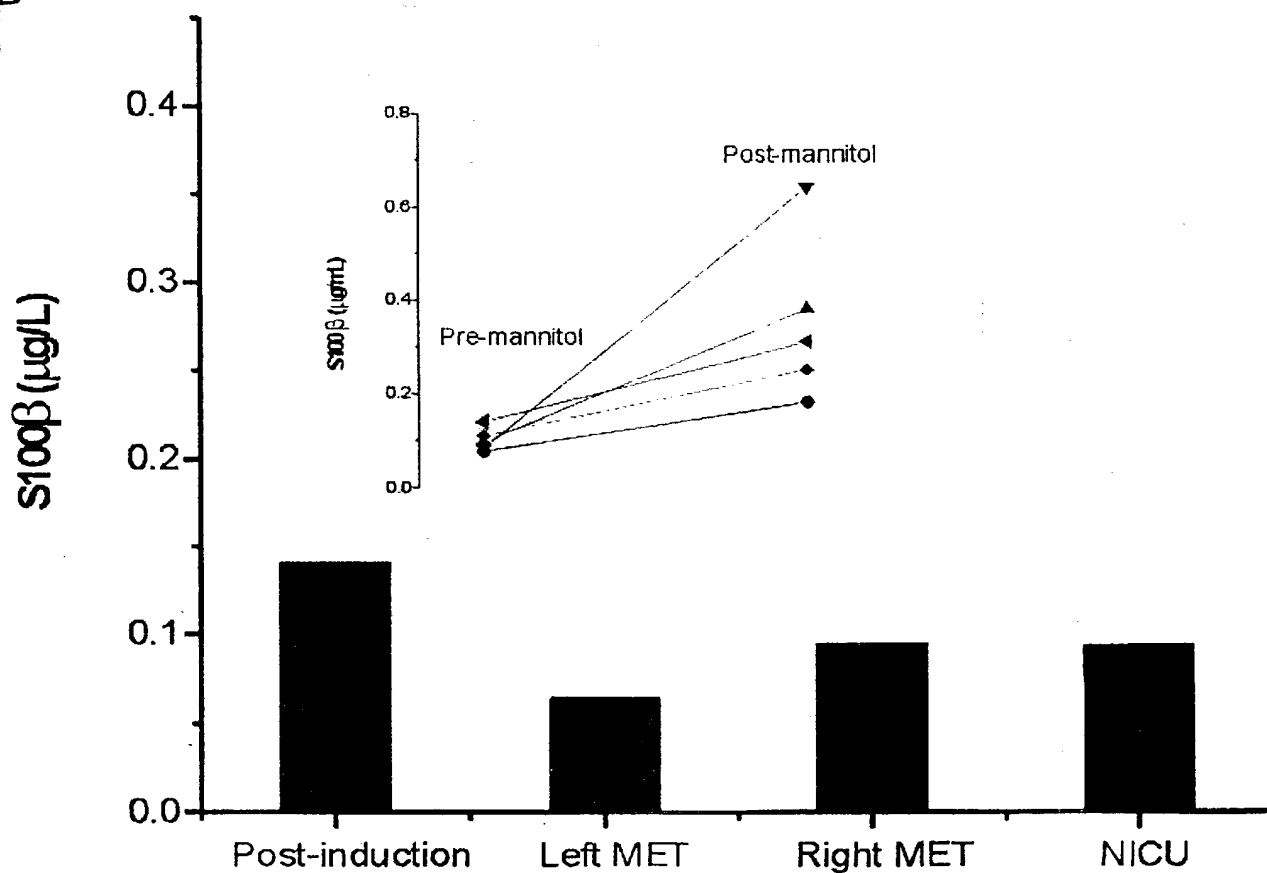


Fig. 4

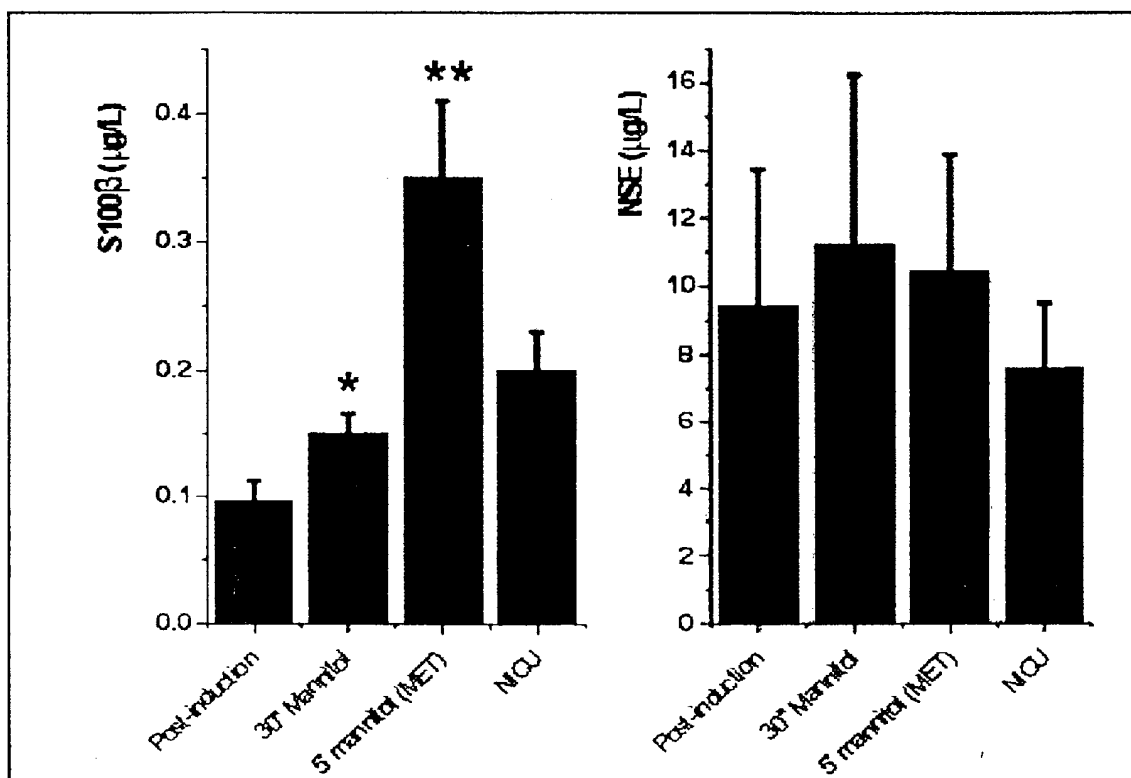


Fig. 5